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1 Mar 04

MARINE CORPS ORDER 3400.3F

From: Commandant of the Marine Corps
To: Distribution List

Subj: NUCLEAR, BIOLOGICAL, AND CHEMICAL DEFENSE (NBCD) TRAINING

Ref: (a) MCO 1510.89, Individual Training Standards (ITS)
System for Marine Corps Common Skills (MCCS)
(b) MCO 3500.70, NBC Defense Training and Readiness
(T&R) Manual
(c) MCRP 3-0A, Unit Training Management Guide
(d) MCO 3574.2J, Entry Level and Sustainment Level
Marksmanship Training with the M16A2 Service Rifle
and M9 Service Pistol
(e) MCWP 3-37, MAGTF NBC Operations
(f) MCWP 3-37.1, MTTP's for NBC Defense Operations
(g) MCRP 3-37.2A, Chemical and Biological Contamination
Avoidance
(h) MCRP 3-37.2B, Nuclear Contamination Avoidance
(i) MCWP 3-37.2, MTTP's for NBC Protection
(j) MCWP 3-37.3, NBC Decontamination
(k) MCWP 3-37.4, MTTP's for NBC Reconnaissance
(l) MCWP 3-37.5, Multiservice Procedures for NBC Defense
of Theater Fixed Sites, Ports, and Airfields

Encl: (1) Individual Survival Standards and Basic
Operating Standards of NBC Defense Proficiency for
Marines and Sailors assigned to Marine Corps
Commands
(2) Procedures for NBC Individual Protective Equipment
Confidence Exercise and Safety Brief
(3) NBC Defense Officer/Specialist MOS 5702/5711 and
Collateral Duty NBC Defense Officer/NCO Training
Standards

1. Purpose. To promulgate the NBCD training requirements and standards intended to enable individuals and units to survive and continue their mission(s) while operating in an NBC environment.

2. Cancellation. MCO 3400.3E.

DISTRIBUTION STATEMENT A: Approved for public release;
distribution is unlimited

1 Mar 04

3. Summary of Revision. This order has been revised in its entirety. This order has been reformatted and contains a substantial number of changes to fully integrate Marine Corps NBCD Training. A complete review of this order is required.

4. Background

a. Marine Corps Strategy 21 states "As an expeditionary, task-organized, combined-arms force with superb small-unit leaders, we are prepared to promote peace and stability or, if required, defeat our Nation's adversaries whether they possess conventional or unconventional capabilities." To meet this operational capability, every Marine requires NBCD training at all levels of Marine Corps commands. This training is essential to the Corps' readiness posture, as well as its success on the battlefield.

b. Emerging Weapons of Mass Destruction (WMD) threats, including toxic industrial materials (TIMs) and radiological dispersion devices (RDDs), will require commanders to continually evolve their NBCD training programs to counter and protect against these threats.

5. Training Policy. The Marine Corps trains its personnel to accomplish their wartime mission in any battle space condition and in every environment. Anytime we separate NBCD from other training events, we condition Marines to regard NBCD operations as a separate form of warfare. Complete integration of NBC Defense training will ensure that all Marines possess a thorough understanding of NBCD operations and procedures. All personnel must be trained to recognize NBC attacks, don the field protective mask and protective clothing quickly, perform assigned missions wearing protective clothing, and survive and continue to operate for extended periods in an NBC environment. All Marine Corps organizations must continually integrate NBCD training to develop unit integrity, cohesion, and NBCD operational expertise.

a. Standards, procedures, and responsibilities for Marine Corps NBCD are applicable to all Marine Corps commands, units, and service members regardless of MOS or duty assignment.

b. Enclosure (1) lists standards of NBCD Proficiency for all Marines, as reflected in reference (a).

1 Mar 04

c. Enclosure (2) establishes the procedures, requirements, and responsibilities for safely and effectively conducting an NBC Individual Protective Equipment (IPE) Confidence Exercise.

d. Enclosure (3) lists the minimum NBC Defense training standards for the MOS 57XX NBC Defense Officer, NBC Defense Specialists and Collateral Duty NBC Defense Officer/NCO's as outlined in references (b), (e) and (f).

e. Use reference (c) to prepare and manage NBCD training plans and programs. Reference (c) provides guidance on fully integrating individual and collective NBCD training into command training plans.

6. Training Requirements. Every unit and commander will fully integrate NBCD training into every combat, combat support, combat service support, and command and control exercise during offensive and defensive operations, to include live fire evolutions. Integration is intended to develop and test the ability of Marines at all levels to survive an NBC attack, perform subsequent missions under NBC conditions, and utilize proper NBC warning and reporting procedures. Exercises that include Chemical/Biological (CB) and TIM incidents of other than a combative or conflict nature are encouraged. This type of exercise will focus primarily on potential CB implications if it were introduced during Humanitarian Assistance and Disaster Relief (HADR) operations.

a. Annually, on a calendar year basis, Individual Survival Standards (ISS) training will be conducted for all Marines using the standards of proficiency contained in enclosure (1). In conjunction with ISS training, all Marines will complete an IPE Confidence Exercise, once per calendar year, as outlined in enclosure (2). Upon completion of the IPE confidence exercise, appropriate reporting will be conducted utilizing the Marine Corps Total Force System (MCTFS).

b. Annually, on a calendar year basis, Basic Operating Standards (BOS) training will be conducted for all units using the standards contained in enclosure (1). BOS training can be conducted in garrison, in the field and/or concurrently with Mission Oriented Protective Posture Familiarization Training (MOPP-FT).

c. The Inspector General's Readiness Assessment Teams will conduct individual NBCD testing using NBCD Standards of Proficiency contained in enclosure (1). The Commanding

1 Mar 04

General's Readiness Inspections should use enclosure (1) as a guideline during their evaluation. Practical application is preferred over a written test, when feasible.

d. Unit/Collective Training. All Mission Essential Tasks (METs) must be accomplished in a simulated NBC environment. This training will be conducted annually, on a calendar year basis, and more frequently when feasible. Additionally, it can be conducted both in garrison, in the field and/or concurrently with Mission Oriented Protective Posture Familiarization Training (MOPP-FT). All exercises should focus on mission accomplishment in an NBC environment and will incorporate some level of NBCD in staff planning, operations and individual actions. Many individual and unit training requirements can be accomplished concurrently during these exercises. Requiring a unit to wear NBC IPE for a specific length of time does not, by itself, constitute accomplishment of a MET in an NBC environment. Small unit leaders must be actively involved and ensure all METs can be accomplished while wearing NBC IPE. A unit's inability to accomplish METs in a simulated NBC environment must be documented and formally staffed to the appropriate Major Subordinate Command (MSC) G-3 for resolution (e.g. re-training/re-evaluation).

e. Annually, on a calendar year basis, each Marine must fire their assigned T/O weapon while wearing their appropriate field protective mask. Additionally, each crew-served weapon team must fire its crew-served weapon while masked during live fire exercises. These requirements can be accomplished during field firing exercises and during Phase III (Field Firing) of Sustainment Level Rifle Qualification, as outlined in reference (d).

f. Mission Oriented Protective Posture Familiarization Training (MOPP-FT) will be conducted semi-annually by all personnel on a calendar year basis. MOPP-FT familiarizes the individual with the physical limitations of protective clothing and the inherent heat stress this environment places on each individual. MOPP-FT consists of personnel spending a minimum of eight continuous hours in MOPP levels set by the unit commander while conducting/continuing normal operations. To be effective, the goal of MOPP-FT is for units to be able to successfully accomplish all METs while in MOPP Level IV. Invariably, this will require units to acclimatize personnel, gradually increase protection levels, and apply the appropriate work/rest cycles to

1 Mar 04

ensure success. MOPP familiarization training will be conducted semi-annually at a minimum.

7. Training Verification. The Inspector General's Readiness Assessment Team will evaluate completion of the aforementioned NBCD training requirements during unit visits. The Commanding General's Readiness Inspection Team will verify and evaluate the successful completion of unit NBCD training tasks during their inspection.

8. Waivers

a. Waivers from the requirements of this order may be solicited only for short-term situations that temporarily prevent a unit from complying with the requirement to provide adequate training. Units may request a waiver when it is determined time or the lack of sufficient resources will prevent the accomplishment of a specified NBC training requirement for either an individual or a unit.

b. The authority to waive training will rest with Commanders, Marine Forces Atlantic (COMMARFORLANT), Marine Forces Pacific (COMMARFORPAC), Marine Forces Reserves (COMMARFORRES), and CG, Marine Corps Combat Development Command (MCCDC) for Fleet units. For non-Fleet organizations, authorization to waive training must be obtained from CG, MCCDC (C 469M).

9. Action

a. All Commanders

(1) Train Marines, Sailors, DoD essential civilians and contractors, and other personnel supporting U. S. military operations to survive and continue operations in an NBC environment.

(2) Ensure personnel/units are capable of accomplishing all METs in an NBC environment.

(3) Train all personnel to employ and maintain the NBCD equipment established by current Table of Equipment allowances and other special authorizations, per applicable directives.

b. Force Commanders

1 Mar 04

(1) Develop SOPs and establish MAGTF NBC capabilities, as outlined in references (e) and (f).

(2) NBCD training is to be fully integrated into combat, combat support, combat service support, and command and control exercises during offensive and defensive operations and live-fire evolutions. Integration is intended to develop and test the ability of Marines and Marine units at all levels to survive an NBC attack, perform subsequent missions under NBC attack

conditions, and utilize proper NBC warning and reporting procedures.

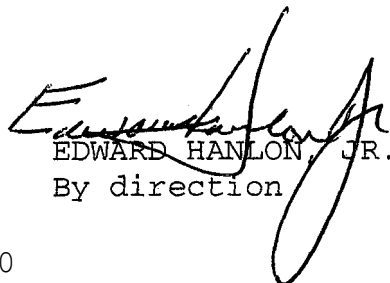
c. Commanders of Bases and Stations

(1) Establish and disseminate NBCD procedures for personnel, equipment, and facilities in accordance with reference (1). These procedures should include measures for defense against terrorist and/or enemy state (if applicable) use of Weapons of Mass Destruction (WMD). Some countries do not permit CS use for training. Commanders will consult with the local governments to determine the regulations for the conduct of this training.

(2) Ensure that all personnel can accomplish the NBCD Standards of Proficiency prior to deploying to an NBC threat area in accordance with enclosure (1).

d. CG, MCCDC, Commander, Marine Corps Systems Command, and Commander, Marine Corps Logistics Bases. Assist with combat development and technical support (physical testing of selected NBCD equipment), technical assistance (instruction/construction in the employment of NBCD equipment), and administer the programs.

10. Reserve Applicability. This order is applicable to the Marine Corps Reserve.


EDWARD HANLON, JR.
By direction

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INDIVIDUAL SURVIVAL STANDARDS AND BASIC OPERATING STANDARDS OF
NBC DEFENSE PROFICIENCY FOR MARINES AND SAILORS ASSIGNED TO
MARINE CORPS COMMANDS

1. General. All personnel assigned to the operating force must be trained in NBCD in order to survive and continue their mission in an NBC environment. NBC Defense proficiency standards are defined as individual survival and basic operating standards. Individual Survival standards are those that the individual must master in order to survive NBC attacks. NBCD Basic Operating standards are those that the individual, and collectively the unit, must be capable of performing to continue operations in an NBC environment.

2. NBCD Survival Standards

a. To meet survival proficiency standards in NBCD, the individual must be able to:

- (1) Identify NATO NBC markers (references (g) and (h)).
- (2) Properly maintain Individual Protective Equipment (IPE)¹ (reference (i)).
- (3) Properly don, clear, and check their field protective mask within nine seconds of an NBC alarm or attack (reference (i)).
- (4) Properly don the appropriate² individual protective clothing and assigned field protective mask to MOPP Level 4 (reference (i)).
- (5) Perform basic functions, (e.g. drinking, waste removal, sleep) while in MOPP Level 4 (reference (i)).
- (6) Perform NBC detection measures with issued detection equipment, i.e. M256A1 Chemical Detection Kit, M8 detection paper, M9 detection tape, and DT 236 radiac detector (references (g) through (i)).
- (7) Decontaminate skin and personal equipment using M291 skin decontamination kit or other appropriate decontaminants (references (i) and (j)).

1 Mar 04

(8) Perform individual (emergency) MOPP gear exchange (reference (j)).

(9) React to a nuclear attack (reference (i)).

(10) React to a chemical attack (reference (i)).

(11) React to a biological attack (reference (i)).

(12) Take the specific actions required to operate efficiently before, during, and after NBC attacks to reduce the effects of NBC contamination (reference (i)).

(13) Recognize or detect chemical agent contamination and perform immediate decontamination techniques: e.g., person, weapon, clothing, equipment, position, vehicle, and crew-served weapons (references (i) and (j)).

(14) Treat a chemical agent casualty (reference (f)).

(15) Be able to drink water from a canteen or other water container while masked (reference (i)).

(16) Be able to properly format and send an NBC 1 Report (reference (g)).

Notes:

1. The type of IPE worn, particularly the field protective mask, is dependant upon the MET the individual performs. Individuals must train with the appropriate IPE.

2. The type of individual protective clothing worn is dependant upon the MET the individual performs. Individuals must train with the appropriate individual protective equipment.

3. NBCD Basic Operating Standards

a. To meet the Basic Operating Standards of Proficiency when conducting missions under NBC conditions, the individual must be able to perform the survival standards listed above as well as the operating standards below. The unit must be able to perform to these standards to continue operations in an NBC environment. Basic Operating Standards include the following:

Enclosure (1)

1 Mar 04

(1) The unit will maintain their collective NBCD equipment in a high state of serviceability at all times (IAW the appropriate Technical Manual).

(2) The unit must be proficient in taking the specific actions required to operate efficiently before, during, and after NBC attacks to reduce the effects of NBC contamination (reference (i)).

(3) The unit must be able to recognize or detect chemical agent contamination and perform immediate individual and operational decontamination techniques: e.g., person, weapon, clothing, equipment, position, vehicle, and crew-served weapons (references (i) and (j)).

(4) The unit must demonstrate proficiency in contamination avoidance procedures when crossing NBC contaminated areas (reference (i)).

(5) The unit must demonstrate proficiency in performing primary military duties, to include the use of crew/personal weapons(s) and minimum/basic combat skills, while wearing IPE for extended periods (references (a) and (e)).

(6) The unit must demonstrate proficiency in operational and thorough decontamination procedures (reference (j)).

(7) The unit must demonstrate proficiency in the principles of collective protection, including passage through contamination control areas, where applicable (references (i) and (j)).

(8) The unit must demonstrate proficiency in the use of dosimetric devices, chemical and biological detection, and monitoring equipment, where applicable (references (g) through (i)).

(9) The unit must be able to send and receive NBC-1 Reports and plot NBC-3 Reports (reference (g)).

(10) The unit must be able to properly conduct Monitor/Survey missions as directed by higher headquarters (references (g) and (k)).

Enclosure (1)

MCO 3400.3F
1 Mar 04

(11) The unit must be able to conduct unmasking procedures (reference (i)).

Enclosure (1)

MCO 3400.3F
1 Mar 04

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Enclosure (1)

PROCEDURES FOR NBC INDIVIDUAL PROTECTIVE EQUIPMENT
CONFIDENCE EXERCISE AND SAFETY BRIEF

1. Introduction. This enclosure disseminates instructions for proper conduct, procedures, and standardization of the Individual Protection Equipment (IPE) Confidence Exercises. It also serves to reinforce safety precautions and minimize excessive CS agent concentrations while maximizing Nuclear, Biological, and Chemical Defense (NBCD) training value for all personnel. Commanders will ensure IPE Confidence Exercise training safety procedures are known and in practice. Additionally, local host country/state laws and regulations and environmental laws and regulations are followed.

2. Purpose. IPE Confidence Exercises prepare personnel to operate in a contaminated environment physically, mentally, and psychologically. This training provides all personnel the opportunity to experience how their IPE performs and protects them. IPE Confidence Exercises reveal how MOPP will influence individual and unit performance during military operations. "Harassment" and unnecessary actions/events are harmful and prohibited. When properly conducted, IPE Confidence Exercises provide personnel the confidence to survive, operate and accomplish their mission in an NBC environment. IPE includes a number of different masks, accessories, and various clothing items. The minimum attire, ensemble, and/or items to be worn for the enclosed and open air training environments are provided in the following paragraphs.

3. IPE Confidence Exercise Training Objectives. The IPE Confidence Exercise training objectives for personnel and their units are as follows:

a. Establish confidence and sense of value in the employment of IPE.

b. Build confidence in the ability to don and clear the mask in a contaminated environment.

c. Familiarize personnel with the differences in the MOPP levels and the IPE needed to protect themselves in different NBC environments.

1 Mar 04

4. Facility Requirements. IPE Confidence Exercise Training will be conducted in an approved CS Chamber or training area. An enclosed area, such as a CS Chamber, is preferable to an open area, because the desired vapor concentration can be more easily achieved and maintained. The CS Chamber must be a reasonably safe distance from any other activity and at least 500 meters from uncontrolled civilian access roads and cantonment areas. Local range regulations take precedence and can increase but not decrease this distance. Base safety (or their appointed equivalent) must approve the chamber facility. Prior to placing any newly built/established CS chamber into operation, the base industrial hygienist will conduct an oxygen (O₂) level test prior to, and during, a test chamber to ensure the required level of oxygen is present within the chamber to safely conduct the exercise.

a. CS Chamber Facilities. A CS Chamber should be reasonably airtight. The enclosed space must be of sufficient size to safely conduct the CS Chamber exercise and should have a separate entrance and exit. The required materials to conduct the exercise include CS capsules, a heat source for melting the CS particles, and a fire extinguisher(s). Minimum clothing includes physical training (PT) gear with combat boots, field protective masks, chemical protective suit, gloves, and overboots. DO NOT USE CS canisters and/or baseball-type grenades in CS Chambers or enclosed areas.

b. Open Area CS Training. Host country/state regulations and/or laws will regulate this type of CS training. Range Control (or other appropriate, responsible authority) must approve the training area and ammunition for such use. The CS training exercise area should be relatively flat, free from ditches, holes, and other possible individual safety hazards. CS canister grenades may be used for this training. Ensure the downwind drift of CS vapors will not expose nonparticipating personnel. Field protective masks are the only equipment items required for this training. Incorporating additional IPE items will increase equipment familiarization, the personnel's confidence in the equipment, as well as their ability to use it in a NBC contaminated environment.

c. Review local base regulations prior to conducting any IPE Confidence Exercise training.

d. Personnel must be issued and use the field protective mask permanently assigned to them. Using their own field protective mask reduces health risks and allows personnel to gain confidence in the equipment they would use in combat. Utilizing a block of training masks is not authorized.

5. Safety. The following safety standards must be practiced and enforced during all CS training exercises. Maintaining these standards will reduce injuries and enhance the trainings effectiveness.

a. IPE Confidence Exercise training must occur at a reasonably safe distance from other events/activities that are not involved in the exercise. Units will provide appropriate government transportation to and from the chamber; individuals participating in the training will not be allowed to drive their POVs to/from the chamber.

b. The following safety brief will be conducted for all personnel participating in the IPE Confidence Exercise:

(1) The safety brief will be conducted by qualified instructors (as noted in paragraph 6.b below) immediately prior to participant's entry into the chamber. The brief will address:

(a) Proper donning, fitting, and doffing (removal) of the field protective mask and IPE.

(b) Field protective mask serviceability checks in accordance with the appropriate technical manual.

(c) Use of the "buddy" system where personnel inspect mask and IPE fit prior to entry. Personnel must continuously observe each other during conduct of the exercise.

(d) Individual conduct, actions, and events performed during the exercise including entrance into the facility, required performance in the facility, and exiting the facility.

(e) Emergency procedures for the facility will be addressed. The brief will also be used as a screening method to ensure all personnel who are about to participate in the chamber

1 Mar 04

exercise are medically qualified to do so. All participating personnel must be screened by the medical personnel present at the chamber, e.g. unit Corpsman, to ensure they are in good health and are not suffering from any ailments that would preclude personnel from participating in the exercise (e.g. pregnancy, dental surgery within the last 48 hours, open wounds, or exposed rashes).

(f) IPE Employment. Commanders and NBC personnel must consider heat stress created while wearing IPE, especially during hot weather. An adequate water supply must be made available at the exercise site and personnel are encouraged to drink plenty of water prior to, during, and after the exercise.

(g) Wearing of contact lenses while training with CS agents is prohibited. Individuals who normally wear contact lenses must remove them and use properly fitted optical inserts.

(h) A safety vehicle equipped with sufficient communications and medical equipment, and with a nonparticipating driver and Corpsman familiar with the effects of CS and heat stress, will be present during the exercise. To prevent personal contamination, the Corpsman must be equipped to be able to don his/her mask and gloves when treating and transporting casualties. The Corpsman must don his/her field protective mask and IPE prior to rendering assistance to a casualty in the chamber. The driver must exercise caution to avoid becoming contaminated during transport of casualty.

(2) An exit brief will be conducted to cover the following:

(a) Prevention of contamination and residual contamination effects after the exercise.

(b) Instruct personnel to air out IPE for a couple of hours upon return to barracks/quarters.

(c) Individuals should start with a cool shower first, since an initial warm shower will activate the CS agent residue. Personnel may feel agent effects when showering but these effects will last only a short time.

Enclosure (2)

(d) Participants will not operate military or personal vehicles for at least 30 minutes following the completion of the chamber exercise.

(e) Instructors will maintain control over all aspects of the exercise at all times.

6. Responsibilities

a. The Officer-In-Charge (OIC)/NCO-In-Charge (NCOIC)

(1) Must possess the MOS 5702/5711 and be a Corporal or above.

(2) Ensures personnel undergoing training participate in the safety brief and perform all required tasks.

(3) Is knowledgeable in all local range and safety regulations pertaining to CS agent and chamber training.

(4) Ensures the exercise is appropriately scheduled with the local range/area authorities.

(5) Ensures a safety vehicle and nonparticipating Corpsman and driver are on-site. Safety vehicle personnel will be familiar with the effects of CS and heat stress. They will also have IPE readily available in case they have to enter the facility and tend to an emergency.

(6) Supervises the preparation and conduct of the exercise. Monitor CS agent concentration buildup inside the chamber and ensures the exercise is conducted at a safe distance from nonparticipating personnel.

(7) Ensures extra IPE and parts are available.

(8) Ensures the chamber is open for ventilation and cleaned after the exercise.

(9) Briefs primary and assistant instructors on safety requirements.

(10) Supervises the IPE Confidence Exercise training.

MCO 3400.3F

1 Mar 04

(11) Ensures accurate participant attendance rosters are forwarded to the parent unit.

b. The Primary Instructor

(1) Will be a Corporal or above and must possess the MOS 5702/5711.

(2) Inspects the fit of IPE worn by any assistant instructors.

(3) Inspects the fit of participants' IPE.

(4) Assigns participants to pair-off (buddy system) to check each other's protective mask and IPE fit prior to the instructor's inspection. For safety, the pair will continue to monitor each other during the exercise.

(5) Briefs participants on characteristics and effects of CS agent, on proper fit of masks and IPE, and on exercise procedures.

(6) Conducts exercise and/or delegates appropriate duties to assistant instructors.

(7) Assembles participating personnel upwind from the facility and conducts final safety brief and mask/IPE inspections.

c. Assistant Instructors (as required)

(1) Assist OIC/NCOIC and primary instructor with preparation and conduct of the IPE Confidence Exercise Training.

(2) Maintain proper CS agent concentration.

(3) Regulate the safe flow of personnel in and out of the chamber.

(4) Closely observe personnel in the chamber.

(5) Guide exiting personnel away from the chamber and face them into the wind. Use other personnel participating in the exercise as additional guides, if required.

Enclosure (2)

d. Medical Personnel

(1) A Corpsman will brief the personnel attending the chamber on the medical conditions that would prevent an individual from entering the CS Chamber. Personnel who believe they have a medical condition that may prevent them from entering the chamber will not be allowed to enter the chamber without the Corpsman's approval.

(2) A Corpsman will be present at all times during the exercise.

7. IPE Confidence Exercise Training Procedures for Chamber

a. Orientation. Prior to entry into the chamber:

(1) Instructors will conduct IPE inspections and mask donning drills. Personnel should be able to don their field protective mask within nine seconds with an additional six seconds allotted for securing the hood. During the orientation period, personnel will be provided time to practice donning the mask and ensuring the proper fit of the mask and IPE. Inspect the serviceability of each mask. Participants will be paired up and the pair will inspect each other's mask and IPE fit. Pairs will monitor each other for the entire exercise. Replace defective masks with extra field protective masks brought to the chamber exercise for this purpose.

(2) A safety brief will be conducted prior to entering the CS Chamber.

(3) The instructor will give a general orientation on the objectives and procedures of the exercise and a brief orientation on the layout of the chamber. Personnel, properly dressed in the minimum required IPE, will enter the chamber in an orderly manner upon command of the instructor. The number of personnel allowed to enter the chamber in a group will depend on the size of the chamber and number of assistant instructors. An unassisted instructor should have no more than 10 personnel in the chamber at a time. Personnel will be informed that once inside the chamber, it is their responsibility to take immediate action to correct a leaking mask. Immediately upon detecting a leak/broken seal, the individual and buddy will inspect the position of the head harness and the edges of the mask, where it

1 Mar 04

seals against the wearer's face, for any indication of improper fit. The individual will clear and check the mask. If the individual and buddy cannot fix the problem, an instructor will either attempt to fix the mask or have the individual escorted from the chamber. Personnel must understand that if a seal is broken, clearing the mask will not result in immediate relief from the exposure to CS. The effects may persist for several minutes due to CS particles being stuck to the individuals face and the inside of the mask. After allowing for questions, the instructor may begin the exercise.

b. Chamber Preparation. Instructors will initiate the concentration of CS agent in the chamber. The number of CS agent capsules used to initially charge the chamber would be calculated using the following formula:

$$\frac{\text{length} \times \text{width} \times \text{height (interior of chamber in meters)}}{30}$$

$$\text{Example: } \frac{5\text{m} \times 6\text{m} \times 6\text{m}}{30} = \frac{180\text{m}}{30} = 6 \text{ capsules}$$

A heat source will be used to melt the CS particles. Each capsule will be individually opened and emptied on the heat source. The CS particles will melt and release the CS vapor into the chamber air. Instructors will exercise caution to ensure the heat source does not emit harmful vapors. At the conclusion of each IPE Confidence Exercise iteration and after the participants have exited the chamber; add one capsule per 10 new personnel entering the chamber in order to maintain the concentration of CS at the appropriate level.

c. Only appropriate/approved CS agent capsules (DODIC must be included) will be used to conduct IPE Confidence Exercise conducted within a chamber.

(1) Personnel will don IPE and have their "buddy" inspect their fit prior to entry into the chamber. Unserviceable masks will be replaced and the participant will be re-inspected.

(2) After the participants have been inspected, an instructor will lead them into the CS Chamber. Within the first 10 to 15 seconds inside the chamber, the instructors will check personnel for leaks in their masks. If an individual's mask

Enclosure (2)

1 Mar 04

leaks, he/she will raise their hand for assistance. Instructors will attempt to expeditiously correct the problem inside the chamber e.g., attempt to re-don and clear protective mask. If the leak cannot be immediately corrected, the instructors will escort the person out of the chamber. Once outside, the participant will have the mask refitted or replaced and reenter with the next group. Total time allotted for this phase is two to three minutes. During this time, the flow of air and protection of the protective mask and suit are explained. If, at any time, a participant displays extreme stress, an instructor will escort the participant out of the chamber.

(3) The instructor will have individuals perform side-straddle hops for 20-30 seconds to increase the individuals' breathing rate and simulate jarring that may be encountered under combat conditions. Then the Instructor will have the participants bend at the waist, shake their head side to side, stand erect, and turn their heads right and left as far as possible. The head shaking and movements are done to demonstrate to the individuals that a proper seal can be maintained through a full range of motion. Between each of these events, the instructor will allow sufficient time to observe the individuals for a broken seal. If at any time a seal is broken the individual and buddy should take immediate action to obtain a seal, clear and check the mask, and repeat that portion of the exercise. Harassment or any unnecessary events or actions are prohibited.

(4) The Instructor will inform the participants that they are about to break the seal of their mask and remind them that clearing and re-sealing their mask will not immediately eliminate the CS effects. On command, the instructor will have all participants insert two fingers along one cheek of the mask, and on command, break the seal of the mask. Once all participants have done this, they will reseal and clear the mask. This step will train personnel how to clear their mask effectively in a contaminated environment and provides familiarization with CS agent effects in a combat/riot control situation.

(5) Participants will check their buddies to ensure their masks are sufficiently cleared. Instructors will ensure all masks are properly cleared and perform actions as prescribed in the preceding paragraph.

Enclosure (2)

1 Mar 04

(6) Instructors will have individuals extract their canteen and drink water, ensuring personnel force the canteen toward the quick disconnect coupling, not the coupling toward the canteen. Participants must raise the canteen to allow the water to flow through the drinking tube; personnel will not tilt their heads back. The drinking of water can be verified by asking the participant to gurgle the water inside the chamber.

(7) Assistant instructors will roam the chamber and observe individuals closely for any physical difficulties, leaking masks, and/or panic and assist the participants as required.

(8) The total length of time in the chamber should not exceed 15 minutes. Upon completion of the exercise, an assistant instructor will guide personnel out of chamber in an orderly manner to prevent accidents and collisions. The instructors will lead the group upwind of the chamber, face the individuals into the wind, and instruct them to remove their mask without touching their face.

(9) The CS agent concentration is then replenished (one additional capsule per group not to exceed 10 personnel). This procedure is repeated until all personnel have completed the exercise.

(10) Chambers should be swept and ventilated on a regular basis. This will prevent crystallized agent buildup and possible over-concentration for the next CS Chamber exercise. Personnel cleaning the chamber must be in complete IPE and practice caution at all times. Nonparticipating personnel should not be permitted in the immediate area during chamber cleaning.

d. IPE Confidence Exercise training can be conducted in an open area, as permitted by host country/state.

(1) Safety briefings and appropriate exercise orientation briefings remain the same for open area CS training. Participants will be briefed on the conduct of the training.

(2) For field mask confidence exercise, only M7 series CS grenades (must include correct DODIC) may be used.

1 Mar 04

(3) A smoke grenade may be used to check wind direction and agent cloud formation to assist in positioning troops.

(4) Personnel are formed into one or more columns facing into the wind in front of a primary instructor.

(5) Upon the signal of the primary instructor, personnel will don their masks. Individuals will drink from their canteen. The assistant instructor ignites the CS grenade, and individuals move toward the primary instructor individually. The instructor checks individual's mask, individual breaks seal, and then mask is resealed and cleared.

(6) Assistant instructors must observe the individuals in the CS agent cloud for signs of distress or leaking masks. If distress occurs, escort the individual out of cloud. If an individual's mask leaks, the individual will be led out of cloud and instructor will attempt to fix mask. If the protective mask cannot be repaired, it will be replaced and the individual will repeat the exercise.

(7) When all of the participants' masks have been inspected, they will be guided out of the agent cloud and faced into the wind by the instructors.

e. Conduct exit brief in accordance with paragraph 5.b(2) of this enclosure.

MCO 3400.3F
1 Mar 04

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Enclosure (2)

NBC DEFENSE OFFICER/SPECIALISTS MOS 5702/5711 AND COLLATERAL
DUTY NBC DEFENSE OFFICER/NCO TRAINING STANDARDS

1. General. Completion of the required initial basic instruction and sustainment of proficiency are paramount to the ability of the unit NBC Defense Officer and NBC Defense specialist in accomplishing the mission of NBC Defense in their respective units. Listed below are the minimum training requirements for initial instruction and sustainment of proficiency in accordance with reference (b) of the base order:

a. Service Level NBC School. NBCD Officers/Specialists will attend and successfully complete the Marine Corps NBC Defense School located at Fort Leonard Wood Missouri.

b. MOS Sustainment Training. Commanders will ensure their NBC Officers/Specialists complete the training requirements outlined in Reference (b). The MSC NBC Officer/Chief will assist subordinate command NBCD Officers/Specialists by coordinating and conducting training events that are beyond the scope of these units' capability to conduct on their own.

2. Collateral Duty NBC Defense Billet Personnel. Some units in the FMF do not possess an MOS 57XX NBC Defense Officer or NBC Defense Specialist. In these units if the requirement for an NBC Defense billet exists, personnel are appointed to fill the billets in a collateral duty capacity. Listed below are the minimum training requirements for basic instruction and sustainment of proficiency:

a. NBC Defense Collateral Duty Training. MEF NBCD Schools are formed as required using existing personnel and equipment within each active duty MEF. At a minimum, each MEF will be capable of providing the following courses (Lesson plans will be provided by the Service Level NBC School) in support of unit collateral duty NBC Officers/NCOs and NBC Defense team members (i.e. decontamination and monitor/survey teams):

(1) NBC MOS Refresher/Collateral Duty Training.

(2) New Equipment Training (NET). Instructors will be trained using the "Train the Trainer" concept. When new equipment and/or operational procedures are developed, the informal NBC Schools will train the force.

Enclosure (3)

1 Mar 04

(3) MAGTF Staff Advanced NBC Training.

(4) NBC Threat Briefs. Instructors must be prepared to provide classified and unclassified versions of a world wide and local NBC threat briefs. The local threat brief will be prepared by the appropriate MSC.

(5) NBC Team Member/Leader Training.

(6) NBC Equipment Licensing.

b. Unit conducted collateral duty training. In accordance with references (e) through (k), units will possess teams capable of accomplishing the missions of decontamination and Reconnaissance/Monitor/Survey. In order to promote proficiency, cohesiveness, and expertise within these teams, the following minimum training will be conducted at the unit level:

(1) NBC Decontamination Team Training

(2) NBC Monitor and Survey Team Training

(3) NBC Control Center Operations Team Training